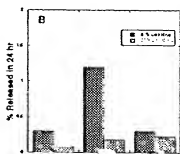
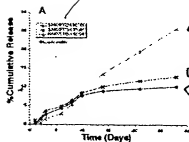


Figure 1

- ◇ SAIB / ETH 85:15
 - SAIB / ETH 75:25
 - △ SAIB / ETH 50:50
- 5% w/v rhGH

Figure 2. The effect of solvent ratio (A) and loading (B,C) on the release of rhGH from SABER formulations containing ethanol



15%
 25%
 50%
 % Ethanol (w/w)



Ethanol
 Bz benzoate (30%)
 Pr carbonate (30%)
 Methylol (50%)

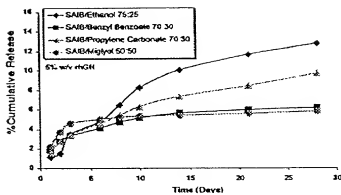
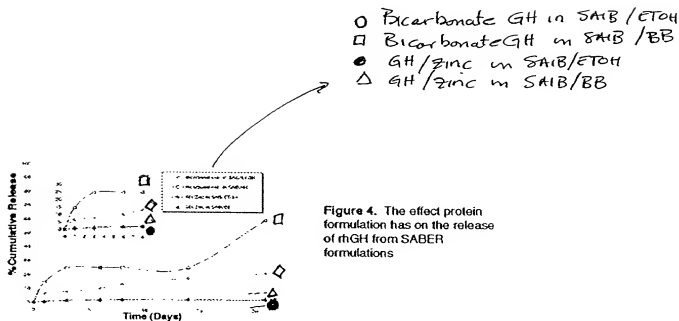


Figure 3. The effect solvent on the release of rhGH from SABER formulations



SAIB:Solvent	Growth Hormone Formulation	% Release over 24 hours	% Daily Release 0-21 days
Ethanol (85:15)	Zinc	0.53	0.10
Ethanol (85:15)	Bicarbonate	6.53	0.73
Benzyl Benzoate (70:30)	Zinc	1.06	0.12
Benzyl Benzoate (70:30)	Bicarbonate	14.64	2.16

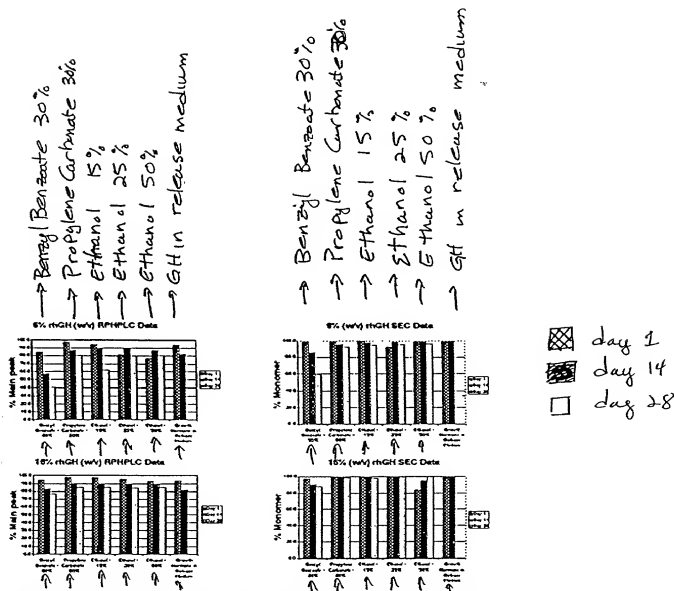


Figure 5. Protein integrity after release from SABER formulations determined by native SEC and RP-HPLC

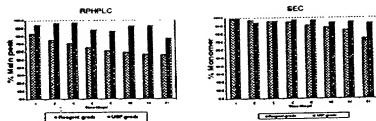


Figure 6. Effect of solvent quality on stability of rhGH released from SABER formulations containing reagent and USP grade benzyl benzoate

 Reagent grade
 USP grade

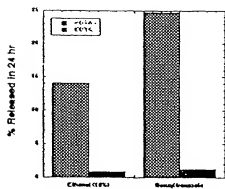


Figure 7. The effect a chelating agent (EDTA) has on the release of zinc complexed rhGH from SABER formulations

ETHANOL(5%) Benzyl benzoate



EDTA +



EDTA -

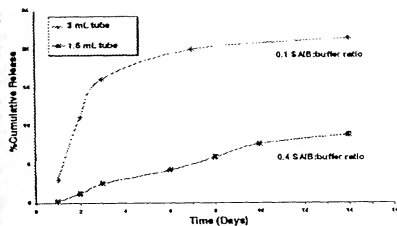


Figure 8. The effect buffer exposed surface area and SABER:buffer ratio have on the release rhGH from SABER formulations

- PLGA microspheres
- Benzyl benzoate (30%)
- ▲ Benzyl alcohol (30%)

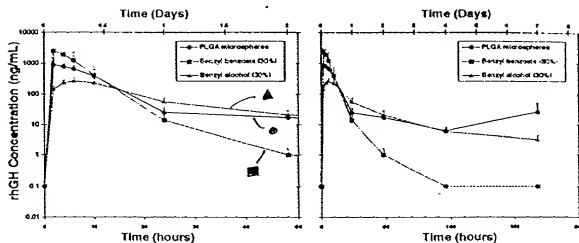


Figure 9. rhGH serum levels after SC administration of rhGH SABER formulations (SD rats, 6/group, 15 mg/Kg)